

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of two existing traffic controlsignals along Western Parkway in Charles County, Maryland. Western Parkway is considered to run in a north/south direction.

II. INTERSECTION OPERATION

A. Western Parkway and Weymouth Court/Target Store

The modification involves the addition of a west leg to the intersection, a northbound Western Parkway left-turn phase and a pedestrian phase across the south leg of the intersection.

The intersection is to operate in NEMA six (6) phase, full-traffic-actuated mode. There will be exclusive/permissive left turn phases for both movements of Western Pkwy. The Western Pkwy through movements will operate concurrently. A pedestrian phase with pushbutton actuation shall be provided across the south leg of Western Pkwy. The Target store entrance and Weymouth Court will also operate concurrently.

The existing base-mounted cabinet shall be maintained at this intersection.

B. St. Patricks Drive and Western Parkway

The modification involves the installation of a pedestrian phase across the east leg of the intersection with sidewalks and handicap ramps.

The intersection shall continue to operate in NEMA eight (8) phase, full-traffic-actuated mode with the St. Patricks Drive approaches running concurrently. Exclusive/permissive left turn phases shall remain for all approaches. A pedestrian phase with pushbutton actuation shall be provided across the east leg of St. Patricks Drive. The Western Parkway/ Mall Entrance approaches shall continue to run concurrently.

The existing base-mounted cabinet shall be maintained at this intersection.

III. SPECIAL NOTE

All field wiring to the existing controller cabinets shall be terminated to the appropriate controller cabinet connectors by the Contractor and labelled. All other controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two (72) hours in advance of intended work.

EQUIPMENT LIST

A. Approved S.H.A. equipment to be purchased by the Developer and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
2	EA	814	12 in., one-way, three section (R,Y,G) adjustable traffic signalhead with span wire mounting hardware and tunnel visors.
1	EA	814	12 in., one-way, five section (R,Y,YA,G,GA) adjustable traffic signalhead with span wire mounting hardware and tunnel visors.
1	EA	814	12 in./8 in., one-way, five section (12 in. YA, GA/ 8 in. R,Y,G) adjustable traffic signalhead with span wire mounting hardware and tunnel visors.
3	EA	814	12 in., one-way, two section (DW,W) symbolic pedestrian signal head with adjustable bracket for pole mounting and cutaway visors.
1	EA	814	12 in., one-way, two section (DW,W) symbolic pedestrian signal head having proper post top adapter for pedestal mounting and cutaway visors.
2	EA	817	Pedestrian pushbutton and R10-3C sign. (Note: Sign to read "PUSH BUTTON TO CROSS WESTERN PKWY".)
2	EA	817	Pedestrian pushbutton and R10-3C sign. (Note: Sign to read "PUSH BUTTON TO CROSS ST PATRICKS DR".)
5	SF	813	24 in. x 30 in. R 4-7 sign with ground mounting hardware.
10.5	SF	813	36 in. x 42 in. R 10-12 sign with span wire mounting hardware.
6.25	SF	813	30 in. x 30 in. R 10-11 b sign with span wire mounting hardware.
14	SF	813	Variable x 16 in. D 3-2 dual faced sign with span wire mounting hardware.
1.5	SF	813	9 in. x 12 in. pedestrian education sign with pole mounting hardware.

B. Equipment to be furnished and installed by the Contractor.

All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
350	SF	104	Temporary Construction Signs.
10	UD	105	Flashing arrow panels.
1	CY	204	Test pit excavation.
100	LF	555	Furnish and install preformed pavement marking tape, yellow (5 in. width for centerlines).
235	LF	555	Furnish and install preformed pavement marking tape, white (5 in. width for lanelines).
440	LF	555	Furnish and install preformed pavement marking tape, white (12 in. width for crosswalks).
100	LF	555	Furnish and install preformed pavement marking tape, white (24 in. width for stoplines).

EQUIPMENT LIST (CON'T.)

B. Equipment to be furnished and installed by the Contractor.

All equipment in this list shall have catalog cuts submitted for approval prior to installation.

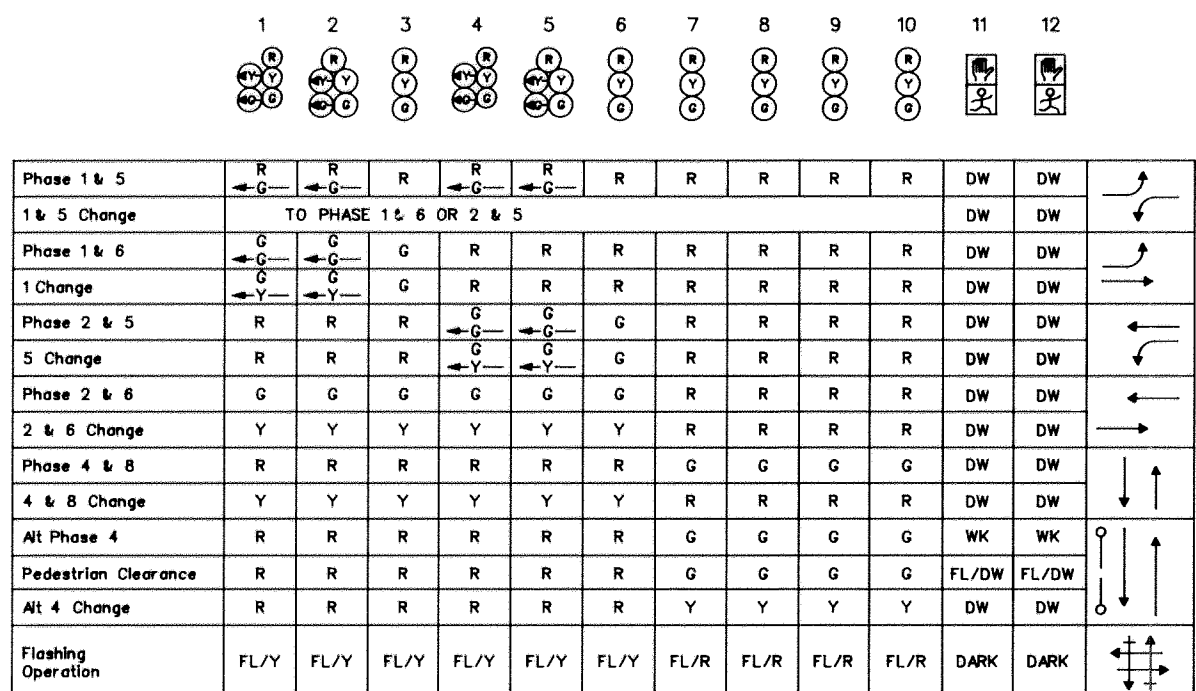
Quantity	Units	Specification Section	Description
300	SF	610	Furnish and install 4 in. concrete sidewalk, mix No. 2.
60	LF	805	Remove curb and gutter.
30	LF	609	Furnish and install curb and gutter.
0.5	CY	801	Furnish and install concrete foundation.
1	EA	804	Furnish and install ground rod, 3/4 in. diameter x 10' length.
1	EA	818/821	Furnish and install 10 ft. breakaway pedestal pole with transformer base.
2	EA	814	Install 12 in., one-way, three-section traffic signal head, span mount.
1	EA	814	Install 12 in., one-way, five-section traffic signal head, span mount.
1	EA	814	Install combination 12/8 in., one-way, five-section traffic signal head, span mount.
3	EA	814	Install 12 in., one-way, two-section pedestrian signal head, pole mount.
1	EA	814	Install 12 in., one-way, two-section pedestrian signal head, pedestal mount.
4	EA	817	Install pushbutton and sign.
5	SF	813	Install ground mounted signs.
32.25	SF	813	Install overhead mounted signs.
2	EA	811	Furnish and install handhole, frame and cover.
215	LF	815	Furnish and install sawcut for signal loop detector.
10	LF	805	Furnish and install 1 in. liquid tight flexible non-metallic conduit for loop detector sleeve.
60	LF	805	Furnish and install 2 in. polyvinyl chloride [Schedule 40] electrical conduit - trenched.
5	LF	805	Furnish and install 2 in. polyvinyl chloride [Schedule 40] electrical conduit - tunneled under sidewalk.
70	LF	805	Furnish and install 2 in. polyvinyl chloride [Schedule 80] electrical conduit - pushed in roadway.
625	LF	810	Furnish and install loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
625	LF	810	Furnish and install 2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
670	LF	810	Furnish and install 2-conductor electrical cable (No. 14 A.W.G.).
670	LF	810	Furnish and install 3-conductor electrical cable (No. 14 A.W.G.).
110	LF	810	Furnish and install 5-conductor electrical cable (No. 14 A.W.G.).
380	LF	810	Furnish and install 7-conductor electrical cable (No. 14 A.W.G.).
30	LF	804	Furnish and install stranded bare copper ground wire (No. 6 A.W.G.).
18	LF	812	Furnish and install wood sign support - 4 in. x 4 in.
1	EA		Relocate existing ground mounted sign.
2	EA		Use existing plan on disk and as-built traffic control device.

C. Equipment to be removed by the Contractor and delivered to: State Highway Administration, Office of Traffic and Safety, Signal Operations Warehouse, 7491 Connelley Drive, Hanover, Maryland 21076. Contact Mr. David Schwartz @ (410) 787-7667, forty-eight (48) hours in advance of returning equipment.

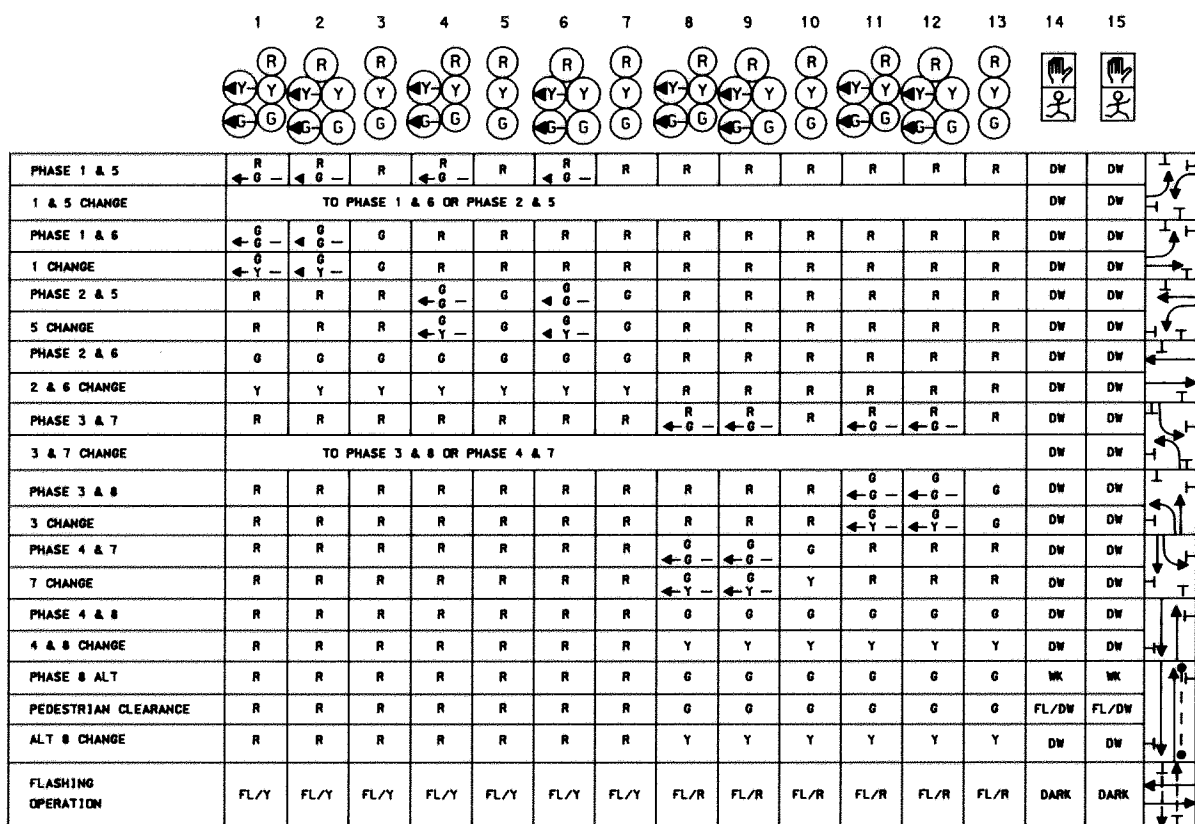
Quantity	Description
1 EA	12 in., three section traffic signal head, span wire mounted.

Note: All equipment and/or materials to be removed by the Contractor but not listed above are to become the property of the Contractor.

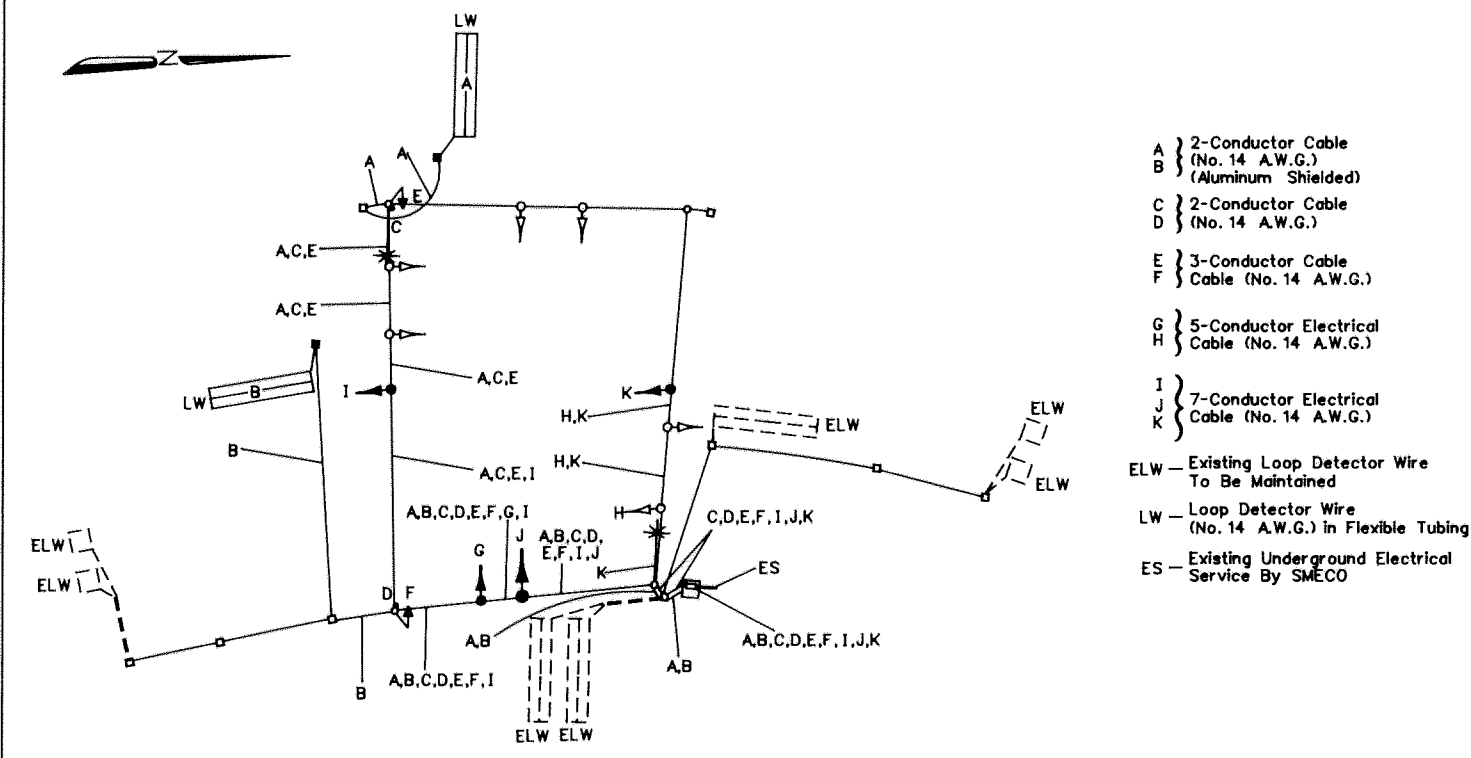
PHASE CHART
WESTERN PKWY AND TARGET STORE/WEYMOUTH CT



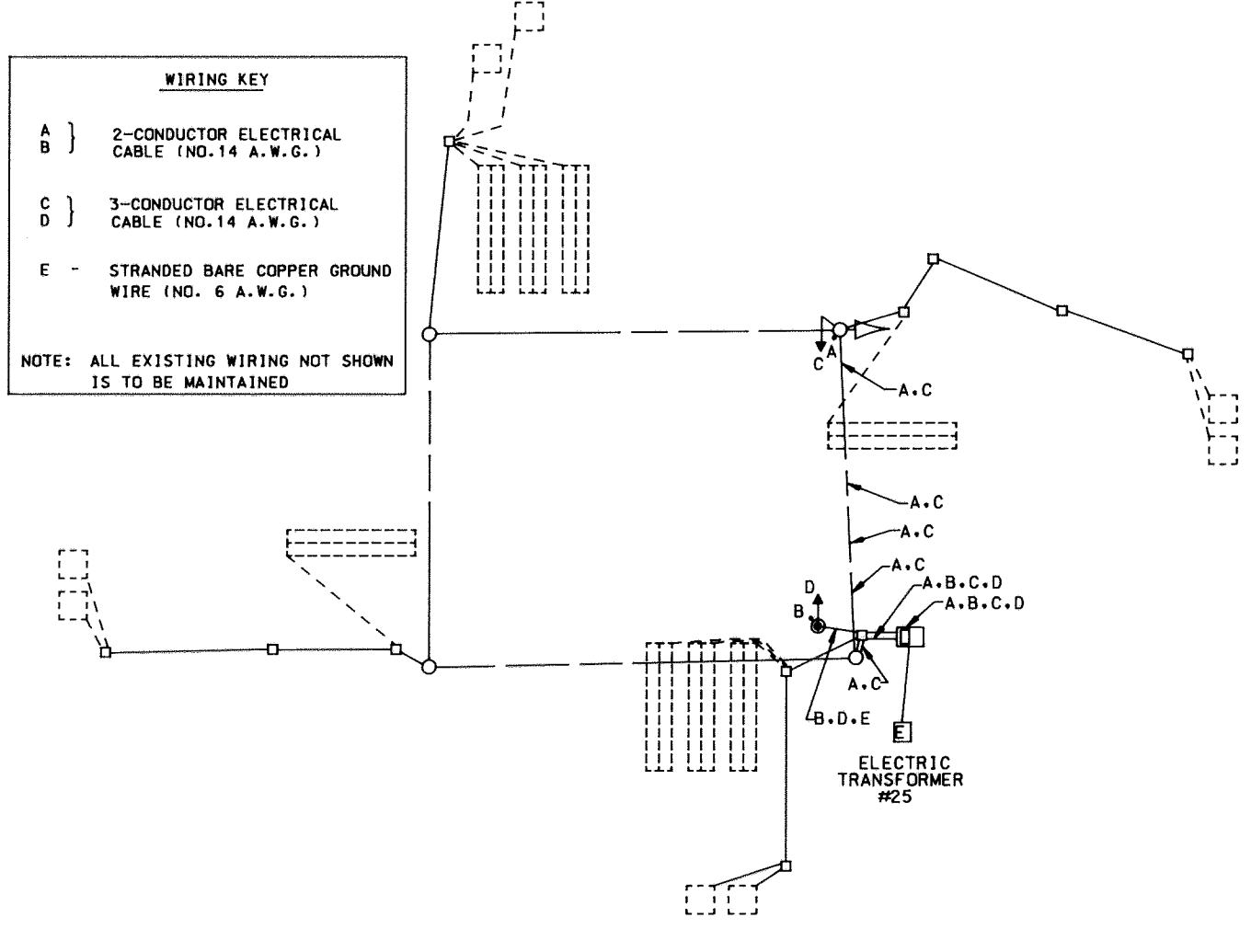
PHASE CHART
ST. PATRICKS DRIVE AND WESTERN PARKWAY



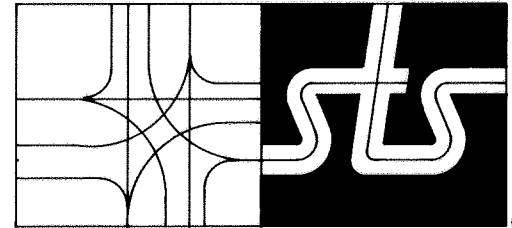
WIRING DIAGRAM
WESTERN PKWY AND TARGET STORE/WEYMOUTH CT



WIRING DIAGRAM
ST. PATRICKS DRIVE AND WESTERN PARKWAY



REVISION - "A"



STREET TRAFFIC STUDIES, LTD.
Gateway International
1302 Concourse Drive, Suite 104
Linthicum, Maryland 21090
(410) 859-3553

PGM #VR 96-0022

CHARLES COUNTY GOVERNMENT DEPARTMENT OF PLANNING & GROWTH MANAGEMENT CAPITAL IMPROVEMENT PROJECTS DEPARTMENT APPROVED		
CATEGORY	BY	DATE
<input type="checkbox"/> Water & Sewer	_____	___/___/___
<input type="checkbox"/> Transportation	_____	___/___/___
<input type="checkbox"/> Stormwater Management	_____	___/___/___
<input type="checkbox"/> Storm Drainage	_____	___/___/___
<input type="checkbox"/> Grading	_____	___/___/___
<input type="checkbox"/> Floodplains	_____	___/___/___
<input type="checkbox"/> COMMENTS:	_____	___/___/___

REVISIONS	APPROVALS
A 8-29-96 ADD WEST LEG, N.B. E/P LEFT TURN PHASE S.H.A. BW 923 M 82	ASST. DIVISION CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
RRZ	CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	ASST. DISTRICT ENGINEER - TRAFFIC
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY

MDOT - STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION	
(General Information)	
1. WESTERN PARKWAY AT TARGET STORE/WEYMOUTH COURT 2. ST PATRICKS DRIVE AT WESTERN PARKWAY	
COUNTY: CHARLES LOG MILE •	
DRAWN BY: _____ DES. BY: _____ CHK. BY: _____	TS/STD. NO. 1. 3607A-GI 2. 2564A
DATE: _____ SCALE: _____	SHEET NO. 20 of 20